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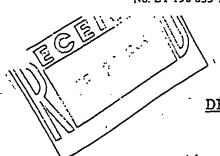
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Attorney Docket Nos. 10082US14; DN37998XG

DECLARATION FOR PATENT APPLICATION

As a below named inventors, we hereby declare that:

Our residence, post office address and citizenship are as stated below next to our names.

We believe we are the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventors (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled HIERARCHICAL DATA COLLECTION NETWORK SUPPORTING PACKETIZED VOICE COMMUNICATIONS AMONG WIRELESS TERMINALS AND TELEPHONES, the specification attached herewith, or as filed on October 5, 1995 as Application No. 08/539,817.

We hereby state that we have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56(a).

We hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Claimed

We hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

	•	•
(Application No.)	06/07/95 (Filing Date)	(Status-patented, pending, abandoned)
OB/279,148 (Application No.)	07/22/94 (filing Date)	Pending (Status-patented, pending, abandoned)
PCT/US94/05037 PCT (Xumber) (Coun	May 6, 1994 try) (Day/Honth/Year/Fi	X Yes _ No
OB/236,413 (Application No.)	04/29/94 (filing Date)	Pending (Status-patented, pending, abandoned)
(Application No.)	02/22/94 (Filing Date)	Pending (Status-patented, pending, abandoned)
(Application No.)	02/18/94 (Filing Date)	(Status-patented, pending, abandoned)
(Application No.)	(Filing Date)	Abandoned (Etatus-patented, pending, abandoned)
PCT/US93/12628 PCT (Number) (Coun	December 23, 1993 try)(Day/Honth/Year/Fi	
(Application No.)	12/16/93 (Filing Date)	Abendoned (Status-patented, pending, sbandoned)
(Application No.)	(Filing Date)	Abandoned (Status-patented, pending, sbandoned)
(Application No.)	OB/03/93 (Nailing Date)	Abandoned (Status-patented, pending, shandoned)
OB/OR5,662 (Application No.)	06/29/93 (Mailing Date)	Abandoned (Status-patented, pending, abandoned)
(Application No.)	D6/11/93 (Nailing Date)	Abandoned (Status-patented, pending, abandoned)
O8/062,457 (Application No.)	05/11/03 (Nailing Date)	Abandoned (Status-patented, pending, abandoned)
(Application No.)	03/05/73 (Filing Date)	Pending (Status-patented, pending, abandoned)
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
(Application No.)	(Nailing Date)	Abandoned (Status-patented, pending, abandoned)
(Application No.)	05/14/91 (Mailing Date)	(Status-patented, pending, abandoned)
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08/205,639 (Application No.)	03/04/94 (Mailing Date)	Pending (Status-patented, pending, abandoned)
(Application No.)	07/22/91 (Mailing Date)	(Status-patented, pending, abandoned)
(Application No.)	01/18/90 (Mailing Date)	(Status-patented, pending, shandoned)
08/275,821 (Application No.)	06/10/94 (Hailing Date)	Pending (Status-patented, pending, abandoned)

	A 4	Abandoned
(Application No.)	<u>06/30/92</u> (Mailing Date)	(Status-patented, pending, abandoned)
	07/05/94	Pending
OB/267,758 (Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
	04/28/94	Pending
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
	03/18/92	Abandoned
O7/854,115 (Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
	07/25/90	Abandoned
07/558,895 (Application No.)	(Halling Date)	(Status-patented, pending, abandoned)
	05/25/90	Abandoned
O7/529,353 (Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
	05/03/89	Abandoned
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
AT CALL THE	05/02/89	Abandoned
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
-W-C-17 200	04/28/89	Abandoned
07/345,200 (Application No.)	(Mailing Date)	(Status-patented, pending, sbandoned)
	01/31/89	Abandoned
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
AT 17/8 FF8	08/21/91	Patented
07/748,150 (Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)

We hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, the following:

Reg. No. 36,308
Reg. No. 36,431
Reg. No. 36,668
Reg. No. 37,179
Reg. No. P-37,769

(Of McAndrews, Held & Malloy, Ltd., Suite 3400, 500 West Madison Street, Chicago, Illinois 60661; Telephone (312) 707-8889.)

Van Metre Lund (Of Northbrook, Illinois)	Reg. No. 16,968
R. Lewis Gable (Of 2001 Jefferson Davis Highway, Arlington, VA 22202)	Reg. No. 22,470
John H. Sherman	Reg. No. 16,909
Winfrid O.E. Schellin (Of Cedar Rapids, Iowa)	Reg. No. 25,916
Sean Patrick Suiter (of Omaha, NE)	Reg. No. 34,260
H. Robert Henderson (Of Des Moines, IA)	Reg. No. 18,486
Michael O. Surm (Of Des Moines, IA)	Reg. No. 26,078
John E. Cepican (Of Davenport, IA)	Reg. No. 26,851
Richard L. Fix (Of Des Moines, IA)	Reg. No. 28,297
William H. Wright (Of Washington, D.C.)	Reg. No. 26,424
Harold M. Knoth (Of Davenport, IA)	Reg. No. 14,469

Address all telephone calls to William M. Wesley at telephone number (312) 707-8889, and

Address all correspondence to:

McAndrews, Held & Malloy, Ltd. 500 West Madison Street 34th Floor Chicago, Illinois 60661

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1991 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor	
(given name, family name):	JOSEPH J. KUBLER

Inventor's signature:

Date: <u>Dec. 21, 1995</u> __

Residence: Boulder, CO 80301

Citizenship: USA

Post Office Address: 4264 Redwood Place

Boulder, CO 80301

Full name of second joint inver	itor	
(given name, family name):	MICHAEL D. MORRIS	
		• .
Second Inventor's signature:	·	
	Michael D. Morris	
Date:		
Residence: Cedar Rapids, Iow	a 52403	
Citizenship: USA		
- ore this are 225 Test	Indea DA SE	

Cedar Rapids, Iowa 52403

Attorney Docket Nos. 10082US14; DN37998XG

DECLARATION FOR PATENT APPLICATION

As a below named inventors, we hereby declare that:

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OB/487,609 (Application No.)	06/07/95 (Filing Date)	Pending (Status-patented, pending, abandoned)
08/279,148 (Application No.)	07/22/94 (Filing Date)	(Status-patented, pending, abandoned)
PCT/US94/05037 PET (Country	May 6, 1994) (Day/Honth/Year/Fi	led) X Yes No
08/236,413 (Application No.)	04/29/94 (Filing Date)	Pending (Status-patented, pending, abandoned)
08/198,404 (Application No.)	02/22/94 (Filing Date)	Pending (Status-patented, pending, abandoned)
08/198,452 (Application No.)	02/18/94 (Filing Date)	Abandoned (Status-patented, pending, abandoned)
08/197,386 (Application No.)	02/16/94 (Filing Date)	(Status-patented, pending, abandoned)
PCT/US93/12628 PCT (Number) (Country	December 23, 1993)(Day/Honth/Year/Fil	ed) X Yes _ No
08/168,478 (Application No.)	12/16/93 (Filing Date)	Abandoned (Status-patented, pending, abandoned)
OB/147,377 (Application No.)	11/03/93 (Filing Date)	Abandoned (Status-patented, pending, abandoned)
08/101,254 (Application No.)	DB/03/93 (Mailing Date)	Abandoned (Status-patented, pending, abandoned)
08/085,662 (Application No.)	06/29/93 (Mailing Date)	Abandoned (Status-patented, pending, abandoned)
08/076,340 (Application No.)	06/11/93 (Mailing Date)	Abandoned (Status-patented, pending, abandoned)
08/062,457	05/11/93 (Mailing Date)	Abandoned (Status-patented, pending, abandoned)
(Application No.) 08/027,140	03/05/93	Pending
(Application No.) 07/997,693	(Filing Date) 12/23/92	(Status-patented, pending, abandoned) Abandoned
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned) Abandoned
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
(Application No.)	05/14/91 (Mailing Date)	Abandoned (Status-patented, pending, abandoned)
07/699,818 (Application No.)	05/13/91 (Mailing Date)	Abandoned (Status-patented, pending, abandoned)
08/205,639 (Application No.)	03/04/94 (Mailing Date)	Pending (Status-patented, pending, abandoned)
07/735,12B (Application No.)	07/22/91 (Mailing Date)	Pending (Status-patented, pending, abandoned)
07/467,096 (Application No.)	01/18/90 (Mailing Date)	Patented (Status-patented, pending, abandoned)
OB/275,821 (Application No.)	D6/10/94 (Mailing Date)	Pending (Status-patented, pending, abandoned)

	06/30/92	Abandoned
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
08/267,758	07/05/94	Pending
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
07/876,776	04/28/94	Pending
(Application No.)	(Hailing Date)	(Status-patented, pending, abandoned).
07/854,115	03/18/92	Abandoned
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
07/558,895	07/25/90	Abandoned
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
07/529.353	05/25/90	Abandoned
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
07/347,602	05/03/89	Abandoned
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
07/345.771	05/02/89	Abandoned
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
07/345,200	04/28/89	Abandoned
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
07/305,302	01/31/89	Abandoned
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)
07/748.150	08/21/91	Patented
(Application No.)	(Mailing Date)	(Status-patented, pending, abandoned)

We hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, the following:

George P. McAndrews	Reg. No. 22,760
John J. Held, Jr.	Reg. No. 21,061
Timothy J. Malloy	Reg. No. 25,600
William M. Wesley	Reg. No. 26,521
Lawrence M. Jarvis	Reg. No. 27,341
Robert C. Ryan	Reg. No. 29,343
Gregory J. Vogler	Reg. No. 31,313
Donald J. Pochopien	Reg. No. 32,167
Herbert D. Hart III	Reg. No. 30,063
Robert W. Fieseler	Reg. No. 31,826
Jean Dudek Kuelper	Reg. No. 30,171
D. David Hill	Reg. No. 35,543
Donald P. Reynolds	Reg. No. 26,220
Thomas J. Wimbiscus	Reg. No. 36,059
Steven J. Hampton	Reg. No. 33,707
Alejandro Menchaca	Reg. No. 34,389
Priscilla F. Gallagher	Reg. No. 32,223
Robert B. Polit	Reg. No 33,993
George Wheeler	Reg. No. 28,766

Christopher C. Winslade
John S. Artz
Gregory C. Schodde
Edward A. Mas
Patrick J. Arnold
Reg. No. 36,308
Reg. No. 36,431
Reg. No. 36,668
Reg. No. 37,179
Reg. No. 27,769

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R. Lewis Gable (Of 2001 Jefferson Davis Highway, Arlington, VA 22202)	Reg. No. 22,479
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Winfrid O.E. Schellin (Of Cedar Rapids, Iowa)	Reg. No. 25,916
Sean Patrick Suiter (of Omaha,NE)	Reg. No. 34,260
H. Robert Henderson (Of Des Moines, IA)	Reg. No. 18,486
Michael O. Sturm (Of Des Moines, IA)	Reg. No. 26,078
John E. Cepican (Of Davenport, IA)	Reg. No. 26,851
Richard L. Fix (Of Des Moines, IA)	Reg. No. 28,297
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McAndrews, Held & Malloy, Ltd. 500 West Madison Street 34th Floor Chicago, Illinois 60661

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor (given name, family name):	JOSEPH J. KUBLER
Inventor's signature: Joseph	J. Kubler
Date: <u>Dec. 19</u> 95	,

Post Office Address: 4264 Redwood Place

Residence: Boulder, CO 80301

Citizenship: USA

Boulder, CO 80301

Full name of second joint inventor
(given name, family name): MICHAEL D. MORRIS

Second Inventor's signature: Mulul D. Mows

Date: 12/21/95

Residence: Cedar Rapids, Iowa 52403

Citizenship: USA

Post Office Address: 335 Trailridge Rd. S.E.

Cedar Rapids, Iowa 52403

Attorney Docket No.: 14364US01

Previous Docket No.: DN 37998XGB

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of:

Joseph J. Kubler

Michael D. Morris

Serial No.:

10/141,506

Filed:

May 8, 2002

For:

Hierarchical Data Collection Network

Supporting Packetized Voice Communications Among Wireless

Terminals And Telephones

Examiner:

Group Art Unit: 2661

Conf. No.: 8070

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST, REVOCATION OF PRIOR POWERS AND CHANGE OF CORRESPONDENCE ADDRESS

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sirs:

We enclose a Power of Attorney by Assignee of Entire Interest, Revocation of Prior Powers and Change of Correspondence Address, and an Assignee Statement Under 37 C.F.R. §3.73(b).

Please charge any required fees or credit any overpayments to the deposit account of McAndrews, Held & Malloy, Ltd. Account No. 13-0017.

Date: 5/2/03

Timothy L. Harney Reg. No. 38,174

Respectfully submitted,

McANDREWS, HELD & MALLOY, LTD. 500 West Madison Street Suite 3400 Chicago, Illinois 60661 (312) 775-8000

We, Broadcom Corporation, are the assignee of record in all the patents/patent applications identified in Exhibits A and B, which are attached hereto and incorporated herein in their entirety. As assignee of record of the entire interest of the identified patents/patent applications, we hereby revoke all powers of attorney previously given in such patents/patent applications, and appoint the following attorney(s) and/or agent(s) to prosecute and transact all business in the Patent and Trademark Office connected with such patents/patent applications.

George P. McAndrews	Reg. No. 22,760
John J. Held	Reg. No. 21,061
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Patrick J. Amold Jr.	Reg. No. 37,769
George Wheeler	Reg. No. 28,766
Janet M. McNicholas	Reg. No. 32,918
Ronald E. Larson	Reg. No. 24,478
Christopher C. Winslade	Reg. No. 36,308
Edward A. Mas II	Reg. No. 37,179
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David D. Headrick	Reg. No. 40,642
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Anthony E. Dowell	Reg. No. 39,661
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Leland G. Hansen	Reg. No. 50,731
James M. Hafertepe	Reg. No. 51,219
Jonathan R. Sick	Reg. No. 43,920
Eligio C. Pimentel	Reg. No. 42,076
James P. Murphy	Reg. No. 40,741
Dean A. Pelletier	Reg. No. 45,007
Michael B. Harlin	Reg. No. 43,658
James R. Nuttall	Reg. No. 44,978
Timothy L. Harney	Reg. No. 38,174
Joseph M. Barich	Reg. No. 42,291
Scott P. McBride	Reg. No. 42,853
Patricia J. McGrath	Reg. No. 44,919
Wilhelm L. Rao	Reg. No. 52,151

	Sandra A. Frantzen		•	•		Reg. No. 48,799 Reg. No. 52,245
	Ronald H. Spuhler		•			
	Christopher V. Carani		٠.		•	Reg. No. 44,049
	Jennifer E. Lacroix		•	•		Reg. No. 46,852
	Joseph F. Harding					Reg. No. 48,450
	Joseph M. Butscher	•				Reg. No. 48,326
	Troy A. Groetken					Reg. No. 46,442
	Sara J. Bartos					Reg. No. 51,439
	John A. Wiberg					Reg. No. 44,401
	John Abramic					Reg. No. 51,031
	David ZPetty				•	Reg. No. 52,119
	Michael T. Cruz					Reg. No. 44,636
						Reg. No. 50,914
•	David Muzilla					
	Christopher N. George			_	•	Reg. No. 51,728
	Kevin Borg		•		•	Reg. No. 51,486
	Mirut Dalal	•		•		Reg. No. 44,052
	••••					

CHANGE OF CORRESPONDENCE ADDRESS

Please send correspondence and direct telephone calls to the following:

Christopher C. Winslade McAndrews, Held & Malloy 500 W. Madison Street Suite 3400 · Chicago, IL 60661 (312) 775-8000

ASSIGNEE STATEMENT UNDER 37 C.F.R. § 3.73(b)

We herby state that we are the assignee of the entire right, title and interest in the patents/patent applications identified in Exhibits A and B. A copy of a previously filed Assignment document evidencing transfer of title to Broadcom Corporation is attached hereto as Exhibit C and incorporated herein in its entirety.

(type or print name of person authorized to sign on behalf of assignee)

NOTE: The assignee of the entire interest may revoke previous powers and be represented by an attorney of his or her selection. 37 C.F.R. §1.36.

Exhibit A Assigned Patents

	·					
ALCENOS S	Patene No.	Country	Tille	ismediates	Inventor(s	
6500 4431US01	4910794	US	Mobile Radio Data Communication System & Method	03/20/1990	Ronald	Mahany .
7139 4779US01	5052020	US	Method of and Apparatus for Controlling Modulation of Digital Signals in Frequency-Modulated Transmissions	•	Steven . Ronald	Koenck Mahany
6500X 4382US01	5070536	US	Mobile R adio Data Communication System and Method	12/03/1991	Guy Marvin Ronald	West Sojka Mahany
6767XY 4383US01	5202817	US	Hand-Held Data Capture System With Interchangeable Modules	04/13/1993	Arvin Robert William Dennis	Danielson Geers Gibbs Durbin
					Steven Ronald Phillip George	Koenck Mahany Miller Hanson
					Keith Darald Darrell	Cargin, Jr Schultz Boatwright
36767XZ 14439US01	5218187	US	Hand-Held Data Capture System with Interchangeable Modules	06/08/1993	Je ffre y Darald George Steven	Krunnfusz Schultz Hanson Koenck
,				· •	Phillip	Miller .
37882X 14444US01	5295154	US	Radio Frequency Local Area Network	03/15/1994	Robert	Meier
36767YXX 14341US01	5313053		Laser Scanner Module Having Integral Interfacing with Hand-Held Data Capture Terminal	05/17/1994	George Phillip Darald Jeffrey Steven	Hanson Miller Schultz Krunnfusz Koenck
With the second	· - · ·					·
14340US01	5331136	UŞ	Hand-Held Data Capture System with Interchangeable Modules	07/19/1994	Phillip Darald Jeffrey Steven	Hanson Miller Schultz Krunnfusz Koenck

ckennoz	Patent No.	Country		issue Dates		rede
139XX 803US01	5365546	USį	Method of and Apparatus for Controlling Modulation of Digital Signals in Frequency Modulated		Ronald N	rene Mahany Coenck
882YC 777US01	5394436	US	Transmissions Radio Frequency Local Area Network	02/28/1995	Ronald . 1	Meier Mahany Luse
	·			01/03/1989	Marvin Soji	
625X 1342US01	4,924,462	US	Multiterminal Communication System and Method	•		
5767XYA/B	5418684	US	Hand-Held Data Capture System with Interchangeable Modules	05/23/1995	Steven	Hanson Koenck
4386US01		•			Ronald Keith Arvin	Mahany Cargin, Jr. Danielson
•		•			Darald Dennis	Schultz Durbin
	·			•	Robert William Darrell	Geers Gibbs Boatwrigh
•					Phillip Ronald	Miller Mahany
37834ZX 14402US01	5425051	US :	Radio Frequency Communication Network Having Adaptive Parameters	06/13/1995		Meier
37882XA 14400US01	5428636	US	Radio Frequency Local Area Network			·
36500XXX 14369US01	5483676	US	Mobile Radio Data Communication System and Method	01/09/1996	Marvin Guy Ronald	Sojka West Mahany '
	•			02/27/100	6 Alan	Jovanovi
INT094-04 14209US01	5495500	US	Homodyne Radio Architecture for Dir Sequence Spread Spectrum Data Reception			
37972C 14233US01	5500872	US	Spread Spectrum Base Band Processo	or 03/19/199	6 Ronald Patrick Steven	Mahany Kinney Koenck
37882YAX 14773US01	5504746	US-	Radio Frequency Local Area Networ	k 04/02/199	6 Robert	Meier
\$36808XYC \$14346US01	5515303	us us	Hand-held Computerized Data Collection Terminal with Rechargeal Battery Pack Sensor and Battery Pov Conservation	05/07/19 ole ver	96 Darrell William Keith Ronald Dennis	Boatwri Gibbs Cargin, Mahany Durbin

				Issue Date:	Inventor(s)	
cke(No ?*	PatentiNo	Country		DCD SI DD C	D12 }	Mahany .
767XYC	5530619	US,	Hand-held Data Capture System with			
	3330017		Interchangeable Modules and Side-			Ourbin
81US01			Mounted Function Key			Bibbs
	-					Hanson
					Arvin 1	Danielson
					Keith (Cargin, Jr.
		•		• • •		Schultz
				•		Geers
						Koenck
						Boatwright
•	•	•		•		Miller
_			• •		Phillip	MIIIEI
•			·		·.	· · · · · · · · · · · · · · · · · · ·
	· 		Modular Hand-Held Data Entry System	07/23/1996	Darrell	Boatwright
7940E	5539193 -	· US	Modular Hand-Field Data Hady System		Keith	Cargin, Jr.
4350US01		•			Arvin	Danielson
		•			Richard	Arensdorf
					Glen	Adams
					Steven	Koenck
	•		•			Durbin
		•			Dennis	
			•	•	George	Hanson
			•	••	Ronald	Mahany
			•		Robert	Geers
	•		• •	•	Darald	Schultz
			•	,	William	Gibbs
					Phillip	Miller
•	•		•	•	James	Hutton
	•					2101101
			•			
<u> </u>		7.70	Modular Hand-Held Data Entry System	07/23/1996		Schultz
37940F	5539194	US	Modular many many		George	Hanson
14779US01		•	•		Phillip	Miller
	•		•	•	Steven	Koenck
					Glen	Adams .
		•	•		Dennis	Durbin
			•		Ronald	Марапу
		•				Gibbs
			•		William	
	ř				Robert	Geers
					Richard	Arensdor
					Arvin	Danielson
					Keith	Cargin, J
			•		James	Hutton
					Darrell	Boatwrig
• •	÷	- ·· ·	والمناشب والمحادية فعاريو			
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		715	High Reliability Access Point for	08/13/199	96 Ronald	Mahany
₹38050B ·	5546397	US ·	Wireless Local Area Network			
14403US01	l			09/10/19	96 Ronald	Mahany
37139XXA	5555276	US	Method of and Apparatus for	ינו זען וכט	William	_
14783US0			Controlling Modulation of Digital			Koenck
#14/03USU:	1		Signals in Frequency - Modulated		Steven	Koenck
H			Transmissions			

ockeeNe	PatentNo	Country	Tive 200	Issue Date	Inventor(s	
VT093-49 4338US01	5565670	US;	Cordless RF Link for Bar Code Input Device Modulating Impulses Corresponding to Data State Transitions	10/15/1996	John:	Flaherty
6767XZXX 4774US01	5567925	US	Hand-Held Data Capture System with Interchangeable Modules	10/22/1996	Darald George Jeffrey Phillip	Schultz Hanson Krunnfusz Miller Koenck
		÷ ;			Steven	·.
7998XB 4391US01	5574979	US	Periodic Interference Avoidance in a Wireless Radio Frequency Communication System	11/12/1996	Guy	West
8017 4370US01	5590346	US	Antenna Cap for Computer Device Utilizing a Radio Card	12/31/1996	Guy Ronald	West Mahany
NT093-09C 14371US01	5602380	US	Barcode Scanner-Reader Wireless Infrared Link	02/11/1997	Jon	Bishay
37967B 14392US01	5602854	US .	Wireless Personal Local Area Network Utilizing Removable Frequency Modules with Digital Interfaces and Idle Sense Communication Protocol	02/11/1997	Charles Ronald Guy Ronald	Gollnick Luse West Mahany
INT090-05C 14399US01	5610595	US	Packet Radio Communication System Protocol	03/11/1997	Gary Joseph Jay	Garrabrant Savarese Cho
38157 14404US01	5627412	US	Dynamically Switchable Power Supply	05/06/1997	Paul	Beard .
37998XD 14405US01	5657317	US	Hierarchical Communication System using Premises, Peripheral and Vehicular Local Area Networking	08/12/1997	Ronald Guy	Mahany - West
37882AXX 14375US01	5673031	ÜS	Redundant Radio Frequency Network Having a Roaming Terminal Communication Protocol	09/30/1997		Meier
37977B 14784US01	5679943.	US	Hand-Held Terminal with Display Screens, Interactive Screens, Magnetic Credit Card Readers, Scanners, Printer and Handlers	10/21/1997 s	John Darald Steven Mark	Rohde Schultz Koenck Rasmusser
36767XZAB 14786US01		US	Modular, Portable Data Processing Terminal for use in a Radio Frequency Communication Network	10/21/199	7 Patrick Guy Steven Ronald Phillip	Kinney West Koenck Mahany Miller

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THE PARTY OF THE PARTY.	5682379	US;	Wireless Personal Local Area Network 1		Guy Ronald	Gollnick West Luse Mahany
998G 1772US01	5696903	US	using Microlink, Data Rate Switching, Frequency Hopping and Vehicular Local Area Networking			Mahany
1T094-11 4394US01	5703950	US	Country Specific Frequency Allocation	12/30/1997	Duane Steven Alan	Charron Duke Jovanovich
7834YYB 4347US01	5708680	US	Network Utilizing a Controller and Base. Transceivers to Route Voice Packets	01/13/1998	Charles Ronald Marvin Richard Ronald Mary Keith James	Gollnick Mahany Sojka Arensdorf Luse Detweiler Cargin, Jr. Chossen Pavek
		·			John Amos Guy Gary Arvin	Young West Spiess Danielson
38000FB 14390US01	5708833	US	Antenna Cap, Antenna Connectors and Telephone Line Connectors for Computer Devices Utilizing Radio and Modem Cards	01/13/1998	Ronald Patrick	West Mahany Kinney
37998XG 14776US01	5726984	.US	Hierarchical Data Collection Network Supporting Packetized Voice Communications Among Wireless Terminals and Telephones	03/10/1998	3 Joseph Michael	
38099A 14368USÓ1	5734585	US	Method and Apparatus for Sequencing Power Delivery in Mixed Supply Computer Systems	03/31/199		Beard
37882YD 14417US01	⁻ 5740366	US	Communication Network Having a Plurality of Bridging Nodes which Transmit A Beam to Terminal Nodes ir Power Saving State that it Has Message Awaiting Delivery	:S	Ronald Robert	Mahany Luse Meier
36808YXC 14440US01		US	Communication Module for a Data Capture System	05/05/199	Dennis Darrell Ronald Darald Keith	Boatwrig Mahany

otice (No. 5)	Patent No	Gountry		IssueDafe	A COLUMN TO A	
8009EA 4373US01	5748619	US;	Communication Network Providing Wireless and Hard-Wired Dynamic Routing			Meier
8072 4377US01	5748676	US	Network Utilizing Modified Preambles that Support Antenna Diversity	05/05/1998	Ronald	Mahany
7998XE 4393US01	5790536	US	Hierarchical Communication System Providing Intelligent Data, Program and	08/04/1998	Guy Ronald Michael	West Mahany Morris
•			Processing Migration		Robert Arvin	Meier Danielson
36837E 14441US01	5805807	US	Multilevel Data Communication System Including Local and Host Systems	09/08/1998	Ronald Arvin Phillip	Mahany Danielson Miller
				•	Guy Keith	West Cargin, Jr. Hanson
		•			George Steven Steven	Koenck Salvay
· ·	-			12/01/1998	Keith	Cargin, Jr.
37834YYA 14434US01	5844893	US	System for Coupling Host Computer Meanswith Base Transceiver Units on a Local Area Network	12/01/1998	Marvin Mary Robert	Sojka Detweiler Geers
-	·				Guy Gary John	West Spiess Pavek
•				-	Ronald Arvin Richard	Mahany Danielson Arensdori
					Amos Charles James	Young Gollnick Chossen
Abres de La Caracteria			·	•	Ronald	Luse
37834ZXA 14234US01	5862171	US	Radio Frequency Communication Network Having Adaptive Communication Parameters	01/19/199		Mahany
38017A 14437US01	5870279	US	Antenna Cap for Computer Device Utilizing a Radio Card	02/09/199	9 Guy Ronald	West Mahany
38066X 14800US01	5880867	US	Infrared Backbone Communication Network Having a Radio Frequency Backup Channel	03/09/199	9 Ronald	Mahany
38066A 14804US01	5880868	US	Infrared Backbone Communication Network Having a Radio Frequency Backup Channel	03/09/199	9 Ronald	Mahany

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Dacke engage	PateneNo	Country	Tile	Issue Date	Inventor(s	
36500YZCXA 1443 <i>6</i> US01	5896561	US:	Communication Network Having a Dormant Polling Protocol	04/20/1999	Steve Ronald	Schrader Mahany
36767XYD 14385US01	5898162	US	Hand-Held Data Capture System with Interchangeable Module	04/27/1999	Dennis Darrell William Robert George	Durbin Boatwright Gibbs Geers Hanson
					Phillip Steven Ronald Keith	Miller Koenck Mahany Cargin, Jr.
					Arvin Darald	Danielson Schultz
INT096-32 14395US01	5912921	US	Concurrent Multiple Data Rate Communications in a Wireless Local Area Network	06/15/1999	John Alan	Mensonides Jovanovich
37139XXB 14435US01	5912926	US	Method and Apparatus for Controlling Modulation of Digital Signals in Frequency Modulated Transmissions	06/15/1999	Ronald Steven William	Mahany Koenck Frede
37940G 14432US01	5917175	US	Modular Hand-Held Data Entry System with Voice Interface	06/29/1999	Ronald Steven George William Arvin	Mahany Koenck Hanson Gibbs Danielson
estejtestekkinistektektektektektektektektektektektektekt					Darrell Dennis Phillip Darald Keith	Boatwright Durbin Miller Schultz Cargin, Jr.
				08/17/1000	Robert	Geers Duke
INT094-11C 14390US01	5940509	US	Method and Apparatus for Controlling Country Specific Frequency Allocation	08/17/1999	Steven Duane Alan	Charron Jovanovich

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reckeling and	Paten ENG	Country	Tille 19	Issue Date	Inventor(s	
AND THE PERSON OF THE PERSON O	5940771	WEST STATE	Network Supporting Roaming, Sleeping Terminals	08/17/1999	Mary Guy Ronald Keith Richard Ronald Robert Robert Charles James Arvin Gary Marvin John Amos	Detweiler West Luse Cargin, Jr. Arensdorf Mahany Meier Geers Gollnick Chossen Danielson Spiess Sojka Pavek Young
INT096-30 14384US01	5946344	US	Multiple-Rate Direct Sequence Architecture Utilizing a Fixed Chipping Rate and Variable Spreading Code Lengths	08/31/1999	Alan John Duane	Jovanovich Mensonides Charron
37998XDA 14412US01	5949776	US	Hierarchical Communication System using Premises, Peripheral and Vehicular Local Area Networking	09/07/1999	Ronald Guy	Mahany West
38050BAY 14397US01	5960344	US ·	Local Area Network Having Multiple Channel Wireless Access	09/28/1999	Ronald	Mahany
INT096-25 14372US01	5982812	US	Method and Apparatus for Monitoring Frequency Synthesizer Locking Time	11/09/1999	John Alan	Mensonides Jovanovich
38190R 14343US01	5990733	US	Delay Line Ramp Demodulator	11/23/1999	Ronald Tom	Mahany Schuster
38000EÁ 14802US01	. 5991864	US	Power Connectors, Antenna Connectors and Telephone Line Connectors for Computer Devices Utilizing Radio and Modem Cards	11/23/1999	John Ronald Patrick	Mallard Mahany Kinney
INT097-06 14212US01	6005530	US	Switched Gain Antenna for Enhanced System Performance	12/21/1999	John Alan	Mensonide Jovanovich
INT095-35 14401US01	6005885	US	Methodology for Discontinuous Radio Reception Utilizing Embedded Frame Length Words	12/21/1999	John	Jovanovich Mensonide

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SEKSEK SEE	PalentNo	Country		SueDate	Inventor(s	
	6006100	US,	and the second s	12/21/1999	Steven George Keith Arvin Steven Phillip Ronald	Salvay Hanson Cargin, Jr. Danielson Koenck Miller Mahany
NT096-29 14210US01	6009119	US	Adaptive Power Leveling of an RF Transceiver Utilizing Information Stored	12/28/1999	John Alan	West Mensonides Jovanovich
66767XZAC 14415US01	60147.05	US	in Non-Volatile Memory Modular Portable Data Processing Terminal Having A Higher Layer and Lower Layer Partitioned Communication Protocol Stack for use in a Radio Frequency Communication Network	01/11/2000	Guy Patrick Steven Ronald Phillip	West Kinney Koenck Mahany Miller
38072Â 14213US01	6018555	US	Network Utilizing Modified Preambles that Support Antenna Diversity	01/25/2000	Ronald	Mahany
36808YXCD 14775US01	6023147	US.	Hand-Held Computerized Data Collection Terminal with Rechargeable Battery Pack Sensor and Battery Power Conservation	02/08/2000	Darrell Darald Keith Dennis Ronald William	Boatwright Schultz Cargin, Jr. Durbin Mahany Gibbs
37882YAYA 14389US01	6046992	US	A Radio Frequency Local Area Network	04/04/2000	Robert Ronald	Meier Luse
INT096-31 14438US01	6075807	US	Windowed Digital Matched Filter Circuit for Power Reduction in Battery- Powered CDMA Radios	06/13/2000	John Alan	Mensonide Jovanovich
37882XBA 14387US01	6084867	US	Apparatus and Method of Routing Data in a Radio Frequency Local Area Network	07/04/2000	Robert	Meier
INT094-03C2 14388US01	6118807	US	Methodology For Received Signal Enhancement Utilizing Delay Diversity Processing	09/12/2000	Alan Bruce Frank	Jovanovich WARREN PERGAL
38340R1 14416US01	6172712	. US	Television with Hard Disk Drive	01/09/200	l Paul	Beard

The second second					Inventor(s	
Docket-No-E	Patericko	Country				
36837EA	6192400	US;		02/20/2001	Guy	West
4380US01	•		Including Local and Host Systems		Steven	Salvay
•					Ronald	Mahany
					Arvin	Danielson
•			• .		Phillip	Miller
					George	Hanson
	•	•			Steven Keith	Koenck
•			•		Keim	Cargin, Jr.
2 67 67 VO/T	6244512	US	Hand-Held Data Capture System with	06/12/2001	Arvin	Danielson
36767XYE	0244312		Interchangeable Modules		Ronald	Mahany
14351US01			THIS SUMS COME THE CONTROL	•	Darald	Schultz
	•				Phillip	Miller
•					Steven	Koenck
			•		Darrell	Boatwright
	•				George	Hanson
			· · · · · · · · · · · · · · · · · · ·		Keith	Cargin, Jr.
					Robert	Geers
					William	Gībbs
-	•				Dennis	Durbin
	•					
38234RX	6281850	US	Broadband Multiple Element Antenna	08/28/2001	Daniel	Klostermann
14780US01	0201020		System			
14700001				• .		
			· .			•
INT097-02	6320896	US	RF Receiver Having Frequency-	11/20/2001	Alan	Jovanovich
14439US01	0320070		Hopping/Direct-Sequence Spread	•	John	Mensonides
144390001			Spectrum Signal Discrimination	•		
	6000010	770	RF Narrowband/Wideband	12/04/2001	Alan	Jovanovich
INT097-03.	6327312	US	Discriminating System for Spread	120 112001	John	Mensonides
14396US01		•	Spectrum Signal Differentiation	•		
•					88 222	
37967CA	6359872	US	Wireless Personal Local Area Network	03/19/2002	Ronald	Mahany
14427US01			•		Guy	West
į					Charles	Gollnick
	•				Ronald	Luse
			Radio Frequency Local Area Network	04/16/2002	Ronald	Mahany
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37882YE	6374311	US			Ronald	1 11CA
37882YE 14374US01	6374311	US		•	Ronald Robert	Luse Meier
¥4.	6374311	US		·	Ronald Robert	Meier
14374US01	· • • • • • • • • • • • • • • • •	. · <u>.</u> .	Hierarchical Data Collection Network	05/14/2002	Robert	
14374US01 37998XGA	6374311	US	Hierarchical Data Collection Network	05/14/2002	Robert	Meier
14374US01	· • • • • • • • • • • • • • • • •	. · <u>.</u> .	Hierarchical Data Collection Network Supporting Packetized Voice	05/14/2002	Robert	Meier Kubler
14374US01 37998XGA	· • • • • • • • • • • • • • • • •	. · <u>.</u> .	Hierarchical Data Collection Network Supporting Packetized Voice Communications Among Wireless	05/14/2002	Robert	Meier Kubler
14374US01 37998XGA	· • • • • • • • • • • • • • • • •	. · <u>.</u> .	Hierarchical Data Collection Network Supporting Packetized Voice		Robert Joseph Michael	Meier Kubler

Docket No. Patent No. Country Title Issue Dates Inventor(s) 38009EBA 6407991 US; Communication Network Providing 06/18/2002 Robert Meier							
§14344US01 Wireless and Hard-Wired Dynamic	4	Patent-Nos 6407991	Göuntiny US;	Communication Network Providing Wireless and Hard-Wired Dynamic	Issue Dares 06/18/2002	Inventor Robert	(s)-

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Exhibit B

Assigned Patent Applications

Jocker No.	Secial S	Country		nog Date	Inventor(S	
6500ZXD 4419US01	10/057816	US	Communication System with Data Rate Switching	01/24/2002		Mahany
8127 4425US01	08/513658	US	Modular, Portable Data Processing Terminal For use in a Communication Network	08/11/1995	Phillip Robert Ronald Patrick Steven	Miller Meier Mahany Kinney Koenck
88050BB 14418US01	09/357429	US	Local Area Network Having Multiple Channel Wireless Access	07/20/1999	Ronald	Mahany .
38157XA 14421US01	09/735406	US	Battery Powered Device with Dynamic Power and Performance Management	12/12/2000	Paul	Beard
37882AAYC 14420US01	09/960265	.US	Redundant Radio Frequency Network Having a Roaming Terminal Communication Protocol	09/21/2001	Robert	Meier
38163AY 14211US01	08/973195	US	Spread Spectrum Transceiver Module Utilizing Multiple Mode Transmission	03/06/2000	Ronald :	Mahany
37967X 14426US01	08/499328	US	Transaction Control System Including Portable Data Terminal and Mobile Customer Service Station	07/07/1995	George Roger Robert Ronald Phillip Steven	Hanson Wolf Meier Mahany Miller Koenck
38000FBA 14208US01	09/006566	US	Antenna Cap, Antenna Connectors and Telephone Line Connectors for Computer Utilizing Radio and Modem Cards	01/13/1998	Guy Ronald Patrick	West Mahany Kinney
37998XEB 14409U01	09/723930	US	Hierarchical Communications System	11/28/2000	Ronald	Mahany

	Serial Country		Filing Date I	nyentor(5	
cketNo	Vo.				
963XA3	09/123875 US	<u> </u>	•		Salvay
20/10/50	•	· Address Resolution in a			Mahany
2,0,0000		 Wireless Premises Based 	,		Koenck
		Network		Charles	Gollnick
	•			George	Hanson
•		•		Roger	Wolf .
•		,		Guy	West
				Ronald	Luse
				Keith	Cargin, Jr
				Arvin	Danielson Miller
				Phillip Robert	Meier
		r.		Robert	IATETET
7074771	09/972749 US	System for Coupling a	10/08/2001	Ronald	Mahany
7834YY1 1408US01	931312113 00	Multiplicity of RF Data		Ronald	Luse
++090301		Collection Terminals with		Amos	Young
		Host Computer Means		Guy	West
		• •		Marvin	Sojka
		•		Charles	Gollnick
	•		•	Robert	Geers
				Mary	Detweile
		·		Arvia	Danielso
		· · · · · · · · · · · · · · · · · · ·	•	James	Chossen
				Keith	Cargin,
				Richard	
		•	•	John	Pavek
•		•		Gary .	Spiess
	00000000	Radio Frequency	03/05/2001	Ronald	Mahany
37834ZXC	09/799340 US	Communication Network			
	•	Communication Lieuware		•	
4422US01					
		Having Adaptive			•
14422US01 14422US02		Having Adaptive Communication Parameters	12/20/1999	Keith	Cargin
4422US01 4422US02 36649XZD	09/467255 US	Having Adaptive Communication Parameters Multi-Level, Hierarchical	12/20/1999		
14422US01 14422US02 36649XZD		Having Adaptive Communication Parameters Multi-Level, Hierarchical Radio-Frequency	12/20/1999	Phillip	Miller
14422US01 14422US02 36649XZD		Having Adaptive Communication Parameters Multi-Level, Hierarchical	12/20/1999	Phillip Ronald	Miller Mahany
14422US01 14422US02 36649XZD		Having Adaptive Communication Parameters Multi-Level, Hierarchical Radio-Frequency	12/20/1999	Phillip Ronald Steven	Miller Mahany Salvay
4422US01		Having Adaptive Communication Parameters Multi-Level, Hierarchical Radio-Frequency	12/20/1999	Phillip Ronald Steven Steven	Miller Mahany Salvay Koenck
14422US01 14422US02 36649XZD		Having Adaptive Communication Parameters Multi-Level, Hierarchical Radio-Frequency	12/20/1999	Phillip Ronald Steven Steven George	Miller Mahany Salvay Koenck
14422US01 14422US02 36649XZD		Having Adaptive Communication Parameters Multi-Level, Hierarchical Radio-Frequency	12/20/1999	Phillip Ronald Steven Steven George Guy	Miller Mahany Salvay Koenck Hanson West
4422US01 4422US02 36649XZD		Having Adaptive Communication Parameters Multi-Level, Hierarchical Radio-Frequency	12/20/1999 ·	Phillip Ronald Steven Steven George	Miller Mahany Salvay Koenck Hanson West Daniels
4422US01 4422US02 36649XZD 14423US01	09/467255 US	Having Adaptive Communication Parameters Multi-Level, Hierarchical Radio-Frequency	12/20/1999 06/19/200	Phillip Ronald Steven Steven George Guy -Arvin -	Miller Mahany Salvay Koenck Hanson West Daniels Koenck
4422US01 14422US02 36649XZD 14423US01	09/467255 US	Having Adaptive Communication Parameters Multi-Level, Hierarchical Radio-Frequency Communication System Modular Portable Data	-	Phillip Ronald Steven Steven George Guy Arvin -	Miller Mahany Salvay Koenck Hanson West Daniels Koenck West
4422US01 14422US02 36649XZD 14423US01	09/467255 US	Having Adaptive Communication Parameters Multi-Level, Hierarchical Radio-Frequency Communication System Modular Portable Data Processing Terminal for use	-	Phillip Ronald Steven Steven George Guy Arvin - O Steven Guy Ronald	Miller Mahany Salvay Koenck Hanson West Daniels Koenck West Mest
4422US01 14422US02 36649XZD 14423US01	09/467255 US	Having Adaptive Communication Parameters Multi-Level, Hierarchical Radio-Frequency Communication System Modular Portable Data	-	Phillip Ronald Steven Steven George Guy -Arvin - O Steven Guy Ronald Phillip	Miller Mahany Salvay Koenck Hanson West Daniels Koencl West Mahan Miller
4422US01 4422US02 36649XZD 14423US01	09/467255 US	Having Adaptive Communication Parameters Multi-Level, Hierarchical Radio-Frequency Communication System Modular Portable Data Processing Terminal for use in a Radio Frequency	-	Phillip Ronald Steven Steven George Guy Arvin - O Steven Guy Ronald	Miller Mahany Salvay Koenck Hanson West Daniels Koenck West Mahan Miller
14422US01 14422US02 36649XZD 14423US01 36767XZAE 14410US01	09/467255 US	Having Adaptive Communication Parameters Multi-Level, Hierarchical Radio-Frequency Communication System Modular Portable Data Processing Terminal for use in a Radio Frequency	-	Phillip Ronald Steven George Guy Arvin O Steven Guy Ronald Phillip Patrick	Mahany Salvay Koenck Hanson West Daniels Koenck West Mahan Miller Kinney

DocketNoss	Serial	Country	in a second	Filing Date	Inventoris	
	Z 000000000000000000000000000000000000					
38477RX	09/954520	US .	Integrated Cable Modem and	09/17/2001	Daniel	Bishop
14424US01	•		Cable Television		Michael	Morris
	:		Management System			
37967CAA	10/101436	US	Wireless Personal Local Area	03/19/2002	Charles	Gollnick 2
14407US01			Network	•	Ronald	Mahany 🛔
			•	•	Guy	West
				•	Ronald	Luse
	, .	·				
37882YEA	10/123873	US	Radio Frequency Local Area	04/16/2002	Ronald	Luse
14406US01			Network		Robert	Meier
5					Ronald	Mahany
			 	A # / A B / A B A B A	3.6-3	
37998XGB	10/141506	US ·	Hierarchical Data Collection	05/08/2002	Michael	Morris
14364US01	•		Network Supporting		Joseph	Kubler
	•		Packetized Voice			
			Communications Among			
			Wireless Terminals and			
<u> </u>			Telephones	06/04/2002	Robert	Meier
37882XBC	10/162229	US .	Radio Frequency Local Area Network	06/04/2002	KDDELL	MIETEL
14236US01				05/13/2003	Bahan	Maine
38009EBB	10/144250	ÜS	Communication Network	05/13/2002	Robert	Meier
14207US01 ·		•	Providing Wireless and Hard- Wired Dynamic Routing			
		· · ·		05/25/1999	Ronald	Mahany
37834XXBY	09/318668	US	Network Supporting		Ronald	Luse
14206US01		•	Roaming, Sleeping Terminals		Amos	Young
3			· •	•	Guy	West
		•			Marvin	Sojka
į					Charles	Gollnick
1				•	Robert	Geers
					Mary	Detweiler
					Arvin	Danielson
. <u> </u>					James	Chossen
E-P				÷	Keith	Cargin, Jr.
40/3					Richard	Arensdorf
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Ĭ	• •		·		Gary	Spiess
98798					Robert .	Meier
- Landard		y 1				
36808XYE	08/921485	US	Hand-Held Computerized	• • •	Alfred	Koelle
ទ្ធី14231US01			Data Collection Terminal	٠	Jeremy	Landt

36767XB 14366US01	08/478,488 US ,	Hand-Held Data Capture System with Interchangeable Modules	06/07/95	Steven Phillip Arvin Ronald Dennis Keith George Darald Robert Darrel William Stephen	Koenck Miller Danielson Mahany Durbin Cargin Hanson Schultz Geers Boatwright Gibbs Kelly
38477R1 . 14411US01	09/805,589 US	Integrated Cable Modem and Cable Television Management System	03/13/01	Daniel Michael	Bishop Morris

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ASSIGNMENT

THIS ASSIGNMENT is made and effective as of the 24th day of December, 2002. by INTERMEC IP CORP. (hereinafter referred to as the "ASSIGNOR"), a company organized and existing under the laws of Delaware, having a principal place of business at 21900 Burbank Boulevard, Woodland Hills, CA 91367.

WITNESSETH

WHEREAS, said ASSIGNOR is the owner of the entire right, title and interest in and to the Patent Applications and Patents in the United States of America and other foreign countries, set forth in Attachment A hereto;

WHEREAS, BROADCOM CORPORATION, a company organized and existing under the laws of Delaware, having a principal place of business at 16215 Alston Parkway, Irvine, California 92619, (the "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to such Patents Applications and Patents, both from the United States and foreign.

Now therefore, in exchange for receipt of good and sufficient consideration, the receipt and sufficiency of which is hereby acknowledged, and as agreed to by the ASSIGNEE and ASSIGNOR, ASSIGNOR hereby assigns and transfers to ASSIGNEE and ASSIGNEE accepts, all of the rights, title and interest of ASSIGNOR throughout the World in and to any and all inventions claimed or disclosed in such Patent's and Patent Applications which are set forth and listed in Attachment A hereto.

This Assignment includes all of ASSIGNOR's right, title and interest in, to and under each of the Patent Applications and Patents set forth and listed in Attachment A hereto (including, without limitation, rights to damages and payments for past, present or future infringements or misappropriations), and, as agreed between the parties, all continuations, continuations-in-part, divisionals, substitute, reexaminations, post-opposition foreign counterpart patents, and applications, reissues and extensions thereof, if any; and, ASSIGNOR requests the Commissioner of Patents of the United States (and all foreign officials, whose duty it is to issue patents on applications as aforesaid) to record ASSIGNEE as the owner of such Patent or Application, to the same extent as held by ASSIGNOR, and to issue the Letters Patent for said Patents to be in the name of the said ASSIGNEE, as an assignee of the Patents.

BROADCOM CORP., ASSIGNOR

By: BROADCOM CORP., ASSIGNEE

By: Brock. Notary Fublic personally.

County of Los Angeles)

State of California)

On December 23, 2002, before me, BJ Brock. Notary Fublic personally.

appeared Beniel S Bishop personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument, the entity upon behalf of which he/she acted, executed the instrument.

WITNESS my hand and official seal:

NOTARY PUBLIC

B. 1 BROCK

Commission #1248605

Notary Public - Colitaria

Los Angeles County

	County of Orange)
	State of California)
	On January 17, 2003, before me, Virginia Lee Nawicki, Hotanfluter personally
•	appeared William J Ruchle, personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that heart executed the same in
	his/her authorized capacity, and that by his/her signature on the instrument, the entity upon behalf of which he/she acted, executed the instrument.
:	WITNESS my hand and official seal:
•	NOTARY PUBLIC
•	VIRGINIA LEE NOWICKI Commission # 1313422 Notary Public - California \$ Orange County

ATTACHMENT A

THE RESERVE THE PARTY OF THE PA				
DocketNor	PatentNo	Senal	Country	Line
6500	4910794		. US.	Mobile Radio Data Communication System & Method
6500ZXD		10/057816	US	Remote Radio Data Communication System with Data Rate Switching
662 <i>5</i> X	4924462		US	Multiterminal Communication System and Method
37139	5052020 +		US	Method of and Apparatus for Controlling Modulation of Digital Signals in Frequency-Modulated Transmissions
37139X/CA	.2074169	٠	CA	Method of and Apparatus For Controlling Modulation of Digital Signals in Frequency-Modulated Transmissions
36500X	5070536		US	Mobile Radio Data Communication System and Method
	1316218		CA	Mobile Radio Data Communication System and Method
	2223914	• •	GB	Mobile Radio Data Communication System and Method
36767XY .	5202817		US	Hand-Held Data Capture System With Interchangeable Modules
36767XZ	5218187		US	Hand-Held Data Capture System with Interchangeable Modules
	678135		UA ·	Hand-Held Data Capture System with Interchangeable Modules
	69231057.6		. DE	Hand-Held Data Capture System with Interchangeable Modules
	573567	, , , ,	GB	Hand-Held Data Capture System with Interchangeable Modules
	•	2104788	CA	Hand-Held Data Capture System with Interchangeable Modules
• • • •	573567		FR	Hand-Held Data Capture System with Interchangeable Modules
37882X	5295154		US	Radio Frequency Local Area Network
36767YXX	5313053		US · ·	Laser Scanner Module Having Integral Interfacing with Hand-Held Da Capture Terminal
36767XZX	5331136		US	Hand-Held Data Capture System with Interchangeable Modules
38127		08/513658	US	Modular, Portable Data Processing Terminal For use in a Communication Network
37139XX	5365546		US	Method of and Apparatus for Controlling Modulation of Digital Signal in Frequency Modulated Transmissions
37882YC	5394436		US	Radio Frequency Local Area Network
36767XB		08/478488	US	Hand-Held Data Capture System with Interchangeable Modules
367 <i>6</i> 7XYA	5418684		US	Hand-Held Data Capture System with Interchangeable Modules
37834ZX	5425051		. US	Radio Frequency Communication Network Having Adaptive Paramete
37882XA	5428636		US .	Radio Frequency Local Area Network
36500XXX	5483676	-	US	Mobile Radio Data Communication System and Method
			US	Homodyne Radio Architecture for Direct Sequence Spread Spectrum
INT094-04	5495500		•	Data Reception

e aDocket No	Prient No		Comin	pie -
37882YAX	5504746	A STATE OF THE REAL PROPERTY O	US	Radio Frequency Local Area Network
ביים אלם		02012917.7	EP	Radio Frequency Local Area Network
37882YPCT				
. •	66486		. UA	Radio Frequency Local Area Network
•	701114	4 ` `	UA .	Radio Frequency Local Area Network
36808XYC	5515303		. US	Hand-held Computerized Data Collection Terminal with Rechargeable
36808XYE		00/001/05		Battery Pack Sensor and Battery Power Conservation
		08/921485	US	Hand-Held Computerized Data Collection Terminal
36767XYC	5530619	•	niz	Hand-held Data Capture System with Interchangeable Modules and Side-Mounted Function Key
37940E	5539193		US	Modular Hand-Held Data Entry System
37940F .	5539194		US	Modular Hand-Held Data Entry System
38050B	5546397	·	US	High Reliability Access Point for Wireless Local Area Network
38050BB		09/357429	. עצ	Local Area Network Having Multiple Channel Wireless Access
37139XXA	.5555276		US	Method of and Apparatus for Controlling Modulation of Digital Signals in Frequency - Modulated Transmissions
INT093-49	.5565670		US ·	Cordless RF Link for Bar Code Input Device Modulating Impulses . Corresponding to Data State Transitions
36767XZXX	5567925 .		US .	Hand-Held Data Capture System with Interchangeable Modules
37998XB · :	5574979	:	US	Periodic Interference Avoidance in a Wireless Radio Frequency Communication System
38017	5590346		US	Antenna Cap for Computer Device Utilizing a Radio Card
INT093-09C	5602380		. US	Barcode Scanner-Reader Wireless Infrared Link
37967B	5602854	. ,	US.	Wireless Personal Local Area Network Utilizing Removable Frequency Modules with Digital Interfaces and Idle Sense Communication Protocol
INT090-05C	5610595	•	US	Packet Radio Communication System Protocol
38157	5627412		US	Dynamically Switchable Power Supply
38157XA		09/735406	US	Battery Powered Device with Dynamic Power and Performance Management
37998XD	5657317		US	Hierarchical Communication System Using Premises, Peripheral and Vehicular Local Area Networking
37882AXX	567303.1	-	US .	Redundant Radio Frequency Network Having a Roaming Terminal Communication Protocol
37882AAYC		09/960265	US	Redundant Radio Frequency Network Having a Roaming Terminal Communication Protocol
37977B	5679943	•	us ,	Hand-Held Terminal with Display Screens, Interactive Screens, Magnetic Credit Card Readers, Scanners, Printers and Handlers
36767XZAB	5680633		US	Modular, Portable Data Processing Terminal for use in a Radio Frequency Communication Network

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Docket No	Patenen	No. 20 Section Section	Coin	
38163AY		08/973195	- Contractor Contracto	Spread Spectrum Transceive Medial Living
	·		US	Spread Spectrum Transceiver Module Utilizing Multiple Mode Transmission
37967C	5682379		US	. Wireless Personal Local Area Network
٠.	69684		ŬA .	Wireless Personal Local Area Network
		2152598	CA	Wireless Personal Local Area Network
	٠	94905966.1	EP	Wireless Personal Local Area Network
37967X		08/499328	US.	Transaction Control System Including Portable Data Terminal and Mobile Customer Service Station
37998G·	5696903		US	Hierarchical Communications System using Microlink, Data Rate Switching, Frequency Hopping and Vehicular Local Area Networking
NT094-11	5703950		US	Method and Apparatus for Controlling Country Specific Frequency Allocation
37834YYB	5708680		US	Network Utilizing a Controller and Base Transceivers to Route Voice Packets
8000FB	5708833		US	Antenna Cap, Antenna Connectors and Telephone Line Connectors for Computer Devices Utilizing Radio and Modem Cards
38000FBA		09/006566	.US	Antenna Cap, Antenna Connectors and Telephone Line Connectors for Computer Utilizing Radio and Modern Cards
37998XG	5726984		US	Hierarchical Data Collection Network Supporting Packetized Voice Communications Among Wireless Terminals and Telephones
8099A	5734585		US	Method and Apparatus for Sequencing Power Delivery in Mixed Suppl Computer Systems
7882YD	5740366		US	Communication Network Having a Plurality of Bridging Nodes which Transmit A Beam to Terminal Nodes in Power Saving State that it Has Messages Awaiting Delivery
6808YXCB	5747786		US	Communication Module for a Data Capture System
8009EA	5748619		US .	Communication Network Providing Wireless and Hard-Wired Dynamic Routing
-	679593		AU ·	Communication Network Providing Wireless and Hard-Wired Dynamic Routing
8000G/EP		94916663.1	- EP	Multiple Antenna Selection and Antenna Cap for Computer Devices Utilizing Radio and Modern Cards
8072	5748676		US	Network Utilizing Modified Preambles that Support Antenna Diversity
7998XE · · · :	5790536		US	Hierarchical Communication System Providing Intelligent Data, Program and Processing Migration
	700800	•	AU.	Hierarchical Communication System Providing Intelligent Data,
	, , ,		•	Program and Processing Migration
··. · · · ·	715628		UA	Program and Processing Migration' Hierarchical Communication System Providing Intelligent Data, Program and Processing Migration

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Docket No	Priteria	SETTEN	Count	
# POS #24 Ft 100 F				
37998XEB		09/723930	·	and Processing Migration
37967XX			·US	Hierarchical Communications System
		VEDIR	US	Enhanced Mobility and Address Resolution in a Wireless Premises Based Network
36837E	5805807		US	Multilevel Data Communication System Including Local and Host Systems
37834YYA	.5844893		US	System for Coupling Host Computer Meanswith Base Transceiver Unon a Local Area Network
37834YY1	•	09/972749	US	System for Coupling a Multiplicity of RF Data Collection Terminals with Host Computer Means
37834ZXA	5862171		. US.	Radio Frequency Communication Network Having Adaptive Communication Parameters
37834ZXC		09/799340	US	Radio Frequency Communication Network Having Adaptive Communication Parameters
38017A	5870279		US	Antenna Cap for Computer Device Utilizing a Radio Card
8066X	5880867		US	Infrared Backbone Communication Network Having a Radio Frequen Backup Channel
A3908	5880868		US	Infrared Backbone Communication Network Having a Radio Frequen Backup Channel
6500YZCXA	5896561		US	Communication Network Having a Dormant Polling Protocol
6767XYD	5898162	•	· US	Hand-Held Data Capture System with Interchangeable Module
NT096-32	5912921		·US	Concurrent Multiple Data Rate Communications in a Wireless Local Area Network
7139XXB	5912926	:	US	Method and Apparatus for Controlling Modulation of Digital Signals i Frequency Modulated Transmissions
7940G .	5917175		US	Modular Hand-Held Data Entry System with Voice Interface
VT094-11C	5940509		US	Method and Apparatus for Controlling Country Specific Frequency Allocation
7834XXBX	5940771		US	Network Supporting Roaming, Sleeping Terminals
7834XXBY		09/318668	US	Network Supporting Roaming, Sleeping Terminals
VT096-30	5946344		.US	Multiple-Rate Direct Sequence Architecture Utilizing a Fixed Chippin Rate and Variable Spreading Code Lengths
VI 096-30JP		10-542772	JР	Multiple-Rate Direct Sequence Architecture Utilizing a Fixed Chipping Ra and Variable Spreading Code Lengths
7998XDA .	5949776		US	Hierarchical Communication System using Premises, Peripheral and Vehicular Local Area Networking
3050BAY	5960344		US	Local Area Network Having Multiple Channel Wireless Access
T096-25	5982812		US.	Method and Apparatus for Monitoring Frequency Synthesizer Locking Time
190R	5990733		US	Delay Line Ramp Demodulator
000EA	5991864		US	Power Connectors, Antenna Connectors and Telephone Line Connector

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eDocket No	Patent-No	No. 2	Country	Tille
	and the second s			for Computer Devices Utilizing Radio and Modern Cards
INT097-06	6005530		US	Switched Gain Antenna for Enhanced System Performance
INT095-35	6005885		US :	Methodology for Discontinuous Radio Reception Utilizing Embedded Frame Length Words
36649XZC	6006100		· US	Multi-Level, Hierarchical Radio-Frequency Communication System
		96116280.7	EP	osianimeanon system
	641541	l	ΑŪ	Multi-Level, Hierarchical Radio-Frequency Communication System
	494298	3	GB	Multi-Level, Hierarchical Radio-Frequency Communication System
•	494298	3	DE	Multi-Level, Hierarchical Radio-Frequency Communication System
	494298	3 .	ES	Multi-Level, Hierarchical Radio-Frequency Communication System
	494298	٠.	FR	Multi-Level, Hierarchical Radio-Frequency Communication System
	494298	3	π	Multi-Level, Hierarchical Radio-Frequency Communication System
٠	494298		NL	Multi-Level, Hierarchical Radio-Frequency Communication System
36649XZD		09/467255.	US	Multi-Level, Hierarchical Radio-Frequency Communication System
INT096-29	6009119		US	Adaptive Power Leveling of an RF Transceiver Utilizing Information Stored in Non-Volatile Memory
3,6767XZA,C	6014705		US	Modular Portable Data Processing Terminal Having A Higher Layer and
	•	· · · · · · · · · · · · · · · · · · ·		Lower Layer Partitioned Communication Protocol Stack for use in a Radio Frequency Communication Network
36767XZAE		09/597917	ÜS	Modular Portable Data Processing Terminal for use in a Radio Frequency Communication Network
38072A	· 6018555		US	Network Utilizing Modified Preambles that Support Antenna Diversity
36808YXCD	6023147	•	US	Hand-Held Computerized Data Collection Terminal with Rechargeable Battery Pack Sensor and Battery Power Conservation
37882YAYA	6046992 .		· US	A Radio Frequency Local Area Network
37882YAYB		09/542424 . *	US .	A Radio Frequency Local Area Network
INT096-31	6075807		US	Windowed Digital Matched Filter Circuit for Power Reduction in Battery-Powered CDMA Radios
37882XBA	6084867 ·		US	Apparatus and Method of Routing Data in a Radio Frequency Local Area Network
36837EA	6192400		US	Multilevel Data Communication System Including Local and Host Systems
36767XYE	6244512		US -	Hand-Held Data Capture System with Interchangeable Modules
38234RX	6281850		US	Broadband Multiple Element Antenna System
INT097-02	6320896		US 	RF Receiver Having Frequency-Hopping/Direct-Sequence Spread Spectrum Signal Discrimination
INT097-03	6327312		US	RF Narrowband/Wideband Discriminating System for Spread Spectrum Signal Differentiation
37967CA	6359872		US	Wireless Personal Local Area Network

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Dockseno	Patentino	SATAL No.	Country	BIC
37967CAA		10/101436	US	Wireless Personal Local Area Network
37882YE 37882YEA	6374311	10/123873	US US .	Radio Frequency Local Area Network Radio Frequency Local Area Network
37998XGA 37998XGB	6389010	10/141506	US	Hierarchical Data Collection Network Supporting Packetized Voice Communications Among Wireless Terminals and Telephones Hierarchical Data Collection Network Supporting Packetized Voice Communications Among Wireless Terminals and Telephones
37882XBB 37882XBC	6400702	10/162229	US US	A Radio Frequency Local Area Network Radio Frequency Local Area Network
38009EBA	6407991		. US	Communication Network Providing Wireless and Hard-Wired Dynamic Routing
38009EBB		10/144250	. US	Communication Network Providing Wireless and Hard-Wired Dynamic Routing